

H-K Building 09  
 Project Number: 0980193E  
 Project: G. HEILEMAN BREWERY "E"  
 Date Inspected: 03/22/89  
 Inspector: TIM SWARTZ

ASBESTOS ASSESSMENT SURVEY

Building Number: 09  
 Building Name: ENGINE HOUSE  
 SEATTLE, WASHINGTON  
 Building Type: MECHANICAL  
 Year Constructed: 1933

*****	AREA NUMBER: 01	AREA DESCRIPTION: Ground Floor	AREA AVERAGE % ASBESTOS: 7%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
above compressor #8	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	8 in. O.D.	RS/R	27	III	\$96	\$57	\$153
above compressor #8	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	14 in. O.D.	RS/R	27	III	\$173	\$111	\$284
above compressor #3	01-356262	0%	mjp on non-suspect pipe cover	OMA	1	10 in. O.D.	RS/R	27	III	\$63	\$39	\$102
above compressor #3	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	12 in. O.D.	RS/R	27	III	\$152	\$95	\$247
above compressor #2	01-356262	0%	mjp on non-suspect pipe cover	OMA	1	10 in. O.D.	RS/R	27	III	\$63	\$39	\$102
above compressor #2	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	12 in. O.D.	RS/R	27	III	\$152	\$95	\$247
above compressor #6	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	8 in. O.D.	RS/R	27	III	\$96	\$57	\$153
above compressor #6	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	14 in. O.D.	RS/R	27	III	\$173	\$111	\$284
above compressor #5	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	8 in. O.D.	RS/R	27	III	\$96	\$57	\$153
above compressor #5	01-356262	0%	mjp on non-suspect pipe cover	OMA	4	12 in. O.D.	RS/R	27	III	\$303	\$190	\$493
above compressor #4	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	8 in. O.D.	RS/R	27	III	\$96	\$57	\$153
above compressor #4	01-356262	0%	mjp on non-suspect pipe cover	OMA	4	12 in. O.D.	RS/R	27	III	\$303	\$190	\$493
above compressor-in southwest corner	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	10 in. O.D.	RS/R	27	III	\$125	\$78	\$203
above compressor-in southwest corner	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	12 in. O.D.	RS/R	27	III	\$152	\$95	\$247
above compressor-in southwest corner	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	14 in. O.D.	RS/R	27	III	\$173	\$111	\$284
above compressor-in southwest corner	01-356262	0%	mjp on non-suspect pipe cover	OMA	2	16 in. O.D.	RS/R	27	III	\$204	\$151	\$355
	01-356263	0%						27	III			
	01-356264	20%						27	III			

AREA COMMENTS

The material is in good condition with minor contact and water damage. The material is approximately 4' to 16' from the floor. At a minimum, it is recommended that the material be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a high traffic area.

AREA # 01 TOTAL \$2,420 \$1,533 \$3,953

*****	AREA NUMBER: 02	AREA DESCRIPTION: Ground Fl-Mezzanine Level-Pipe Tunnel	AREA AVERAGE % ASBESTOS: 60%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
south end of tunnel-in east wall	00-356265	80%	pipe covering	OMA	50	ft. 4 in. O.D.	HPS/R	39	III	\$446	\$279	\$725
south end of tunnel-in east wall	02-356266	50%	mjp on pipe covering	OMA	10	4 in. O.D.	HPS/R	39	III	\$281	\$156	\$437
	02-356267	50%						39	III			
	02-356268	60%						39	III			

ASBESTOS ASSESSMENT SURVEY

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AREA COMMENTS

AREA # 02 TOTAL \$727 \$435 \$1,162

The materials are in fair to poor condition with contact and water damage. The materials are approximately 2' to 8' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

\*\*\*\*\* AREA NUMBER: 03 AREA DESCRIPTION: Ground Floor-Ceilings AREA AVERAGE % ASBESTOS: 0% \*\*\*\*\*

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&H CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
mezzanine level-break room	03-356269	0%	drop or lay-in panel	OMG	320	sq.ft.						
mezzanine level-restroom	03-356269	0%	drop or lay-in panel	OMG	160	sq.ft.						
	03-356270	0%										
	03-356271	0%										
storage room-at north end	04-356272	0%	acoustical tile	OMG	450	sq.ft.						
	04-356273	0%										
	04-356274	0%										

AREA COMMENTS

AREA # 03 TOTAL \$0 \$0 \$0

\*\*\*\*\* AREA NUMBER: 04 AREA DESCRIPTION: Ground Floor-Attic AREA AVERAGE % ASBESTOS: 60% \*\*\*\*\*

LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&H CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
above storage room-at north end	05-356275	50%	mjp on non-suspect pipe cover	OMA	2	6 in. O.D.	COM	30	III	\$77	\$45	\$122
	05-356276	80%						30	III			
	05-356277	50%						30	III			

AREA COMMENTS

AREA # 04 TOTAL \$77 \$45 \$122

The material is in good condition with no damage apparent. The material is approximately 2' from the floor. The space is confined and the only access is a small panel in the ceiling. At a minimum, it is recommended that the material be maintained and monitored. If removal is planned, glove bag removal procedures are recommended. This appears to be a low traffic area.

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*****	AREA NUMBER: 05	AREA DESCRIPTION: Ground Floor-Attic	AREA AVERAGE % ASBESTOS: 60%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
above storage room-in northwest corner	12-356500	60%	debris	OMF	5 sq.ft.			113 I		\$100	\$0	\$100
	12-356501	60%						113 I				
	12-356502	60%						113 I				

AREA COMMENTS

AREA # 05 TOTAL	\$100	\$0	\$100
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The debris is from magnesia pipe covering. It is recommended that the debris be removed using gross removal procedures.

*****	AREA NUMBER: 06	AREA DESCRIPTION: 2nd Floor	AREA AVERAGE % ASBESTOS: 24%	*****
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LOCATION OF THE MATERIAL	SAMPLE NUMBER	ASB	MATERIAL DESCRIPTION	O&M CODE	QUANTITY	UNITS OF MEASURE	PIPE ID	EXP POT	PL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
against south wall	00-356210	30%	pipe covering	OMA	85 ft.	4 in. O.D.	DW	24	III	\$758	\$474	\$1,232
against south wall-by door	00-356278	20%	wrapped cardboard/paper pipe	OMA	6 ft.	4 in. O.D.	DW	24	III	\$54	\$33	\$87
mezzanine level-on central platform	00-356282	30%	pipe covering	OMA	20 ft.	6 in. O.D.	HPS/R	24	III	\$260	\$162	\$422
mezzanine level-along west & south walls	00-356282	30%	pipe covering	OMA	15 ft.	4 in. O.D.	HPS/R	24	III	\$134	\$84	\$218
against south wall	00-356282	30%	pipe covering	OMA	42 ft.	4 in. O.D.	HPS/R	24	III	\$375	\$234	\$609
mezzanine level-on central platform	00-356282	30%	pipe covering	OMA	28 ft.	4 in. O.D.	HPS/R	24	III	\$250	\$156	\$406
mezzanine level-on central platform	00-356282	30%	pipe covering	OMA	50 ft.	10 in. O.D.	HPS/R	24	III	\$944	\$699	\$1,643
mezzanine level-on central platform	00-356282	30%	pipe covering	OMA	24 ft.	8 in. O.D.	HPS/R	24	III	\$340	\$243	\$583
mezzanine level-along west & south walls	00-356282	30%	pipe covering	OMA	32 ft.	8 in. O.D.	HPS/R	24	III	\$453	\$324	\$777
mezzanine level-along west & south walls	00-356282	30%	pipe covering	OMA	105 ft.	10 in. O.D.	HPS/R	24	III	\$1,981	\$1,467	\$3,448
mezzanine level-W of central platform	00-356298	0%	pipe covering	OMA	60 ft.	4 in. O.D.	COM					
against south wall	06-356279	20%	mjp on pipe covering	OMA	32 4 in.	O.D.	DW	24	III	\$899	\$500	\$1,399
	06-356280	15%						24	III			
	06-356281	10%						24	III			
mezzanine level-along west & south walls	07-356283	40%	mjp on pipe covering	OMA	4 4 in.	O.D.	HPS/R	24	III	\$112	\$62	\$174
mezzanine level-on central platform	07-356283	40%	mjp on pipe covering	OMA	6 6 in.	O.D.	HPS/R	24	III	\$232	\$136	\$368
mezzanine level-along west & south walls	07-356283	40%	mjp on pipe covering	OMA	10 10 in.	O.D.	HPS/R	24	III	\$626	\$391	\$1,017
mezzanine level-along west & south walls	07-356283	40%	mjp on pipe covering	OMA	8 8 in.	O.D.	HPS/R	24	III	\$385	\$226	\$611
mezzanine level-on central platform	07-356283	40%	mjp on pipe covering	OMA	10 10 in.	O.D.	HPS/R	24	III	\$626	\$391	\$1,017
mezzanine level-on central platform	07-356283	40%	mjp on pipe covering	OMA	10 8 in.	O.D.	HPS/R	24	III	\$481	\$283	\$764
mezzanine level-on central platform	07-356283	40%	mjp on pipe covering	OMA	20 4 in.	O.D.	HPS/R	24	III	\$562	\$312	\$874
against south wall	07-356283	40%	mjp on pipe covering	OMA	3 4 in.	O.D.	HPS/R	24	III	\$84	\$47	\$131
	07-356284	0%						24	III			
	07-356285	30%						24	III			
southwest area	08-356286	10%	mjp on non-suspect pipe cover	OMA	3 4 in.	O.D.	RS/R	24	III	\$84	\$47	\$131

ASBESTOS ASSE SURVEY

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mezzanine level-northwest corner-W tank	08-356286	10%	mjp on non-suspect pipe cover	OMA	8 10 in. O.D.	RS/R	24 III	\$501	\$313	\$814
mezzanine level-northwest corner-W tank	08-356286	10%	mjp on non-suspect pipe cover	OMA	10 8 in. O.D.	RS/R	24 III	\$481	\$283	\$764
southwest area	08-356286	10%	mjp on non-suspect pipe cover	OMA	8 10 in. O.D.	RS/R	24 III	\$501	\$313	\$814
mezzanine level-northwest corner-W tank	08-356286	10%	mjp on non-suspect pipe cover	OMA	18 12 in. O.D.	RS/R	24 III	\$1,365	\$853	\$2,218
	08-356287	10%					24 III			
	08-356288	10%					24 III			
mezzanine level-northwest corner-W tank	09-356289	50%	boiler/tank insulation	OMB	200 sq.ft.		24 III	\$5,650	\$4,526	\$10,176
	09-356290	50%					24 III			
	09-356291	50%					24 III			
mezzanine level-NW corner-refri tank-top	10-356295	70%	boiler/tank insulation	OMB	4 sq.ft.		24 III	\$113	\$91	\$204
	10-356296	70%					24 III			
	10-356297	70%					24 III			
mezzanine level-W of central platform	11-356211	20%	mjp on pipe covering	OMA	23 4 in. O.D.	CON	24 III	\$646	\$359	\$1,005
	11-356212	0%					24 III			
	11-356299	20%					24 III			

AREA COMMENTS

The materials are in good condition with minor contact and water damage. The materials are approximately 1' to 16' from the floor. At a minimum, it is recommended that the materials be repaired and monitored. If removal is planned, extensive gross removal procedures are recommended. This appears to be high traffic area.

AREA # 06 TOTAL \$18,897 \$13,009 \$31,906

BUILDING # 09 TOTAL \$22,221 \$15,022 \$37,243